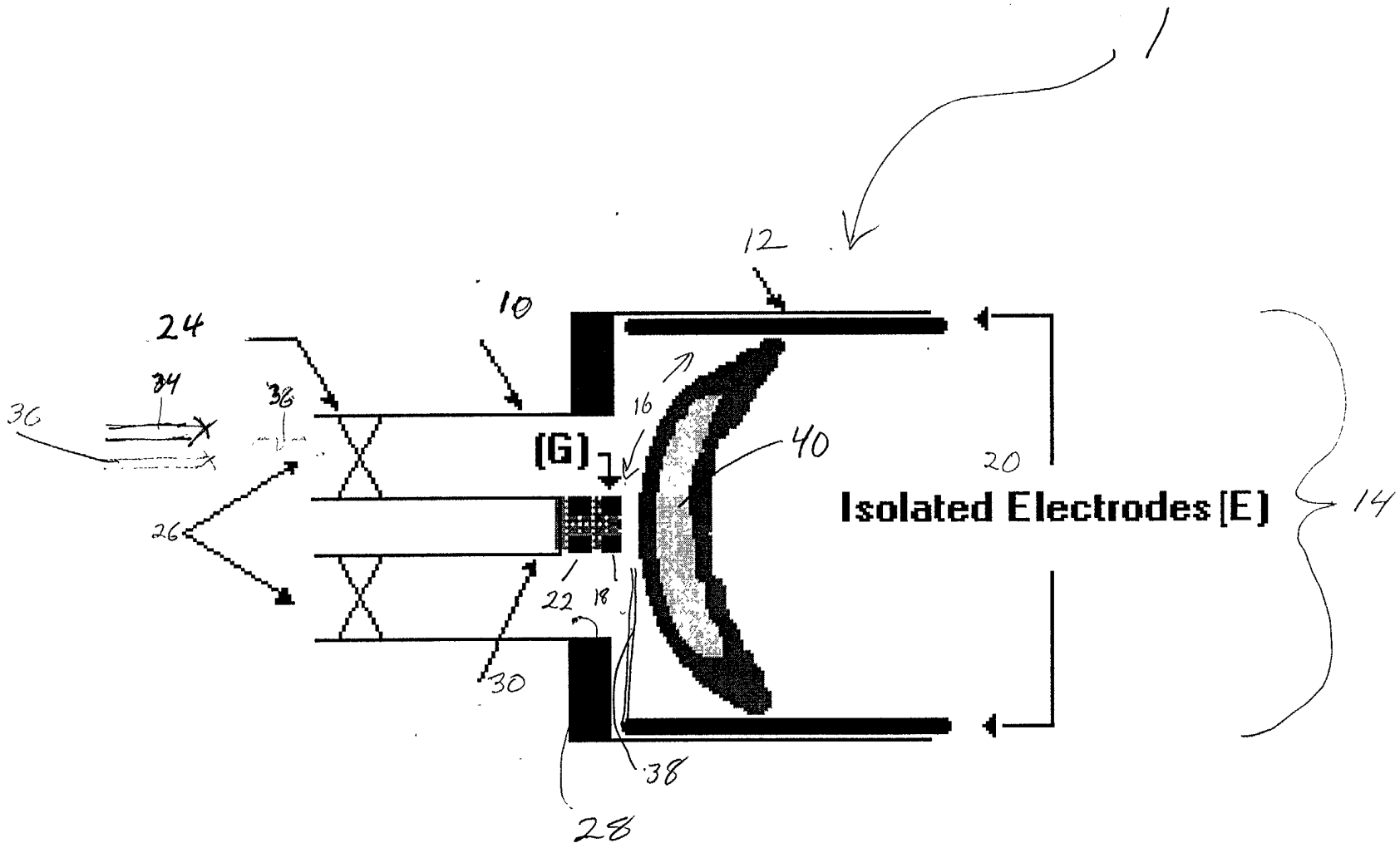
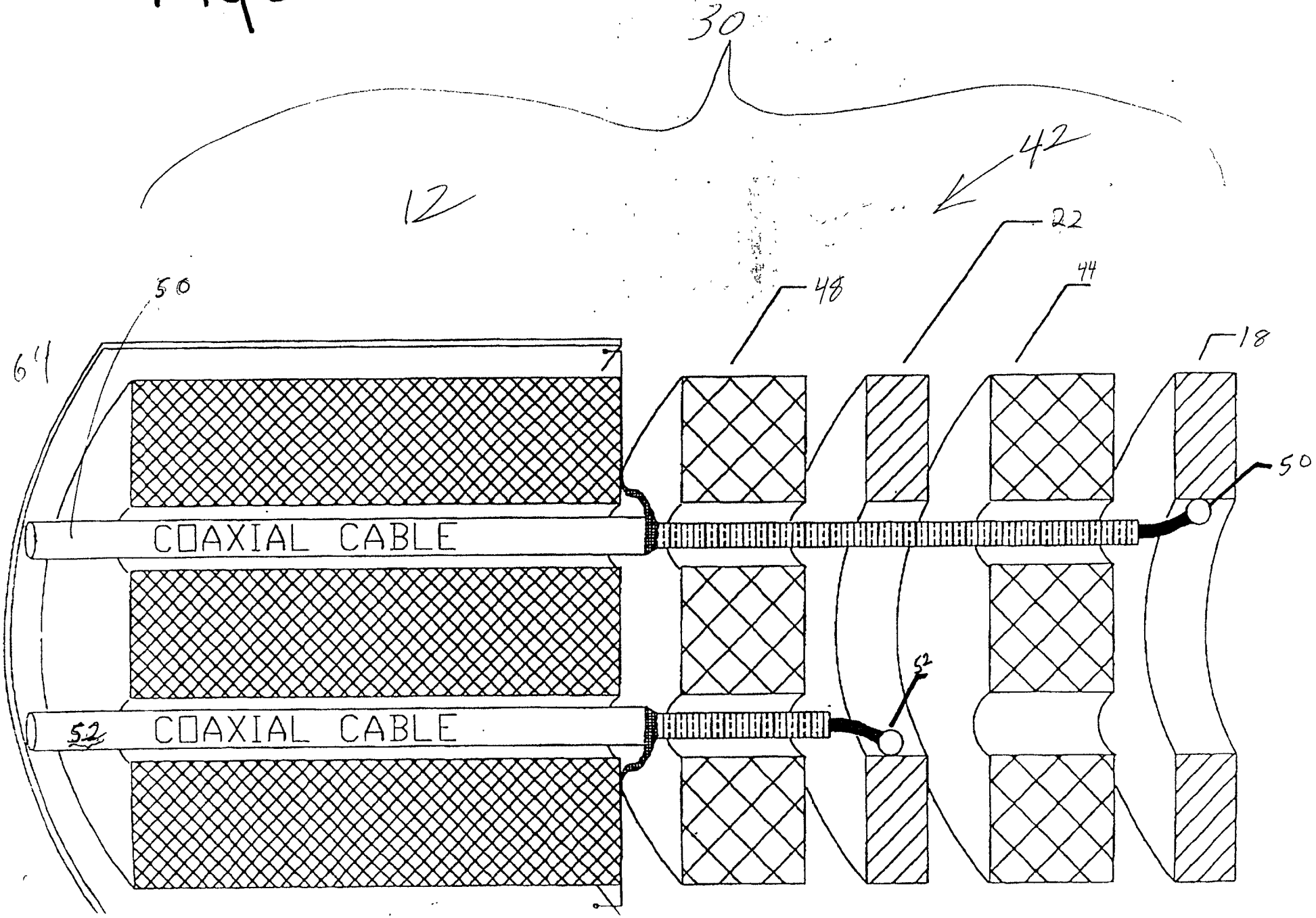

1
12
10
24
34
36
38
16
[G]
40
20
Isolated Electrodes [E]
14
26
22
18
30
38
28

Fig 1

Figure 2



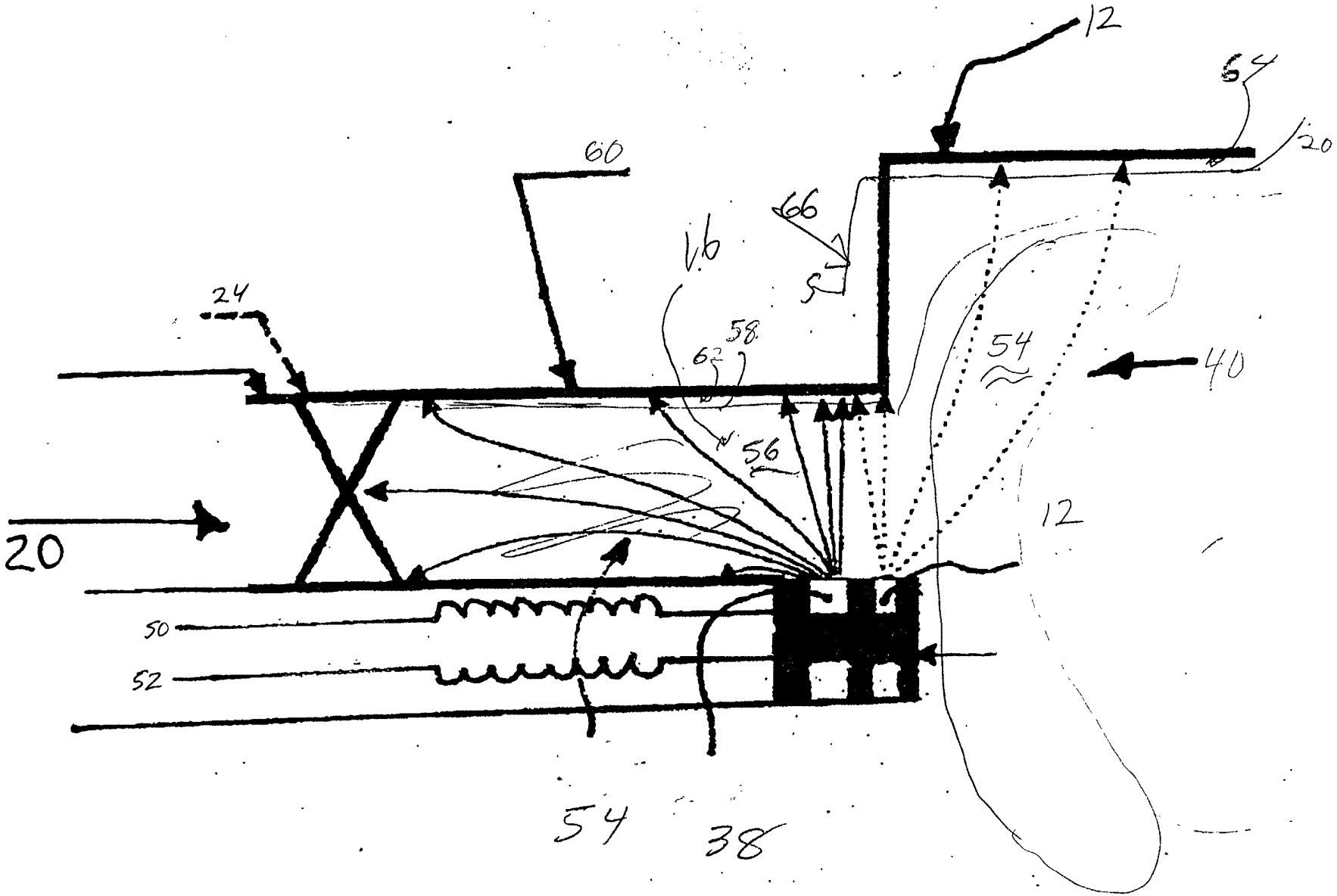


FIGURE 3

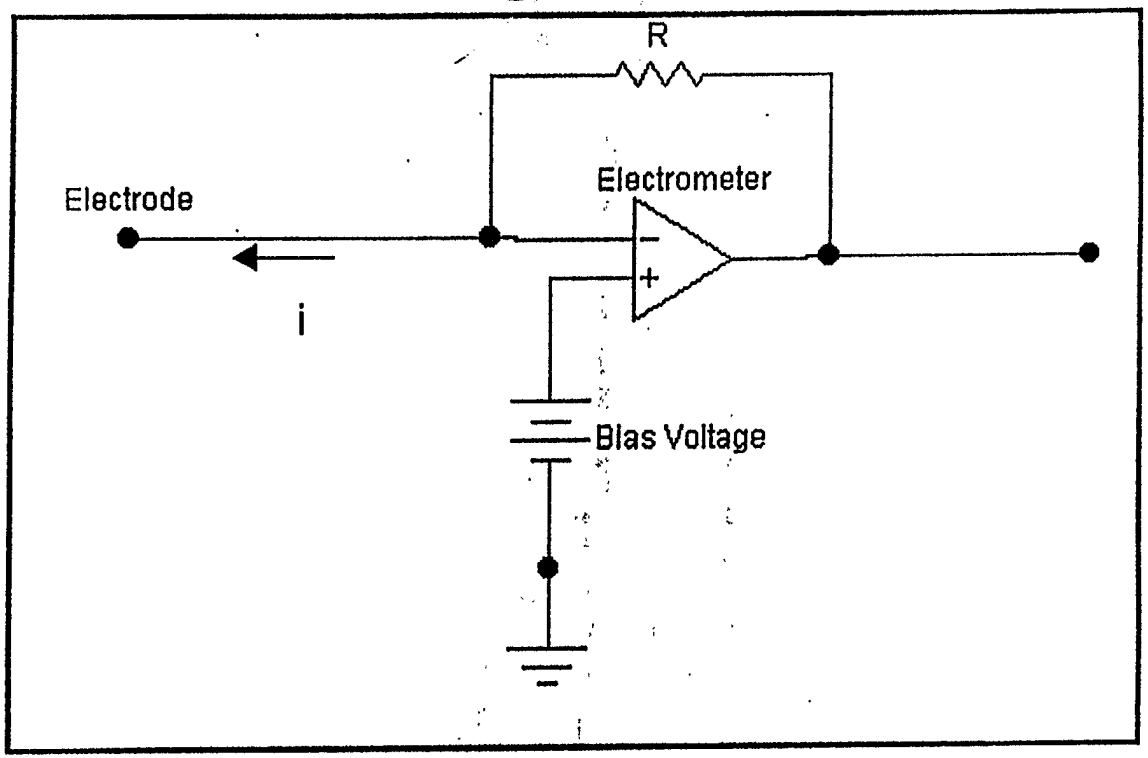
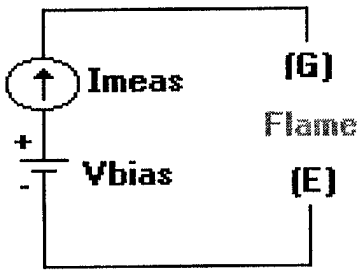


Figure 4: Typical control circuit for flashback detection sensor.

Fig. 4

Figure 4b. Typical current measuring device.



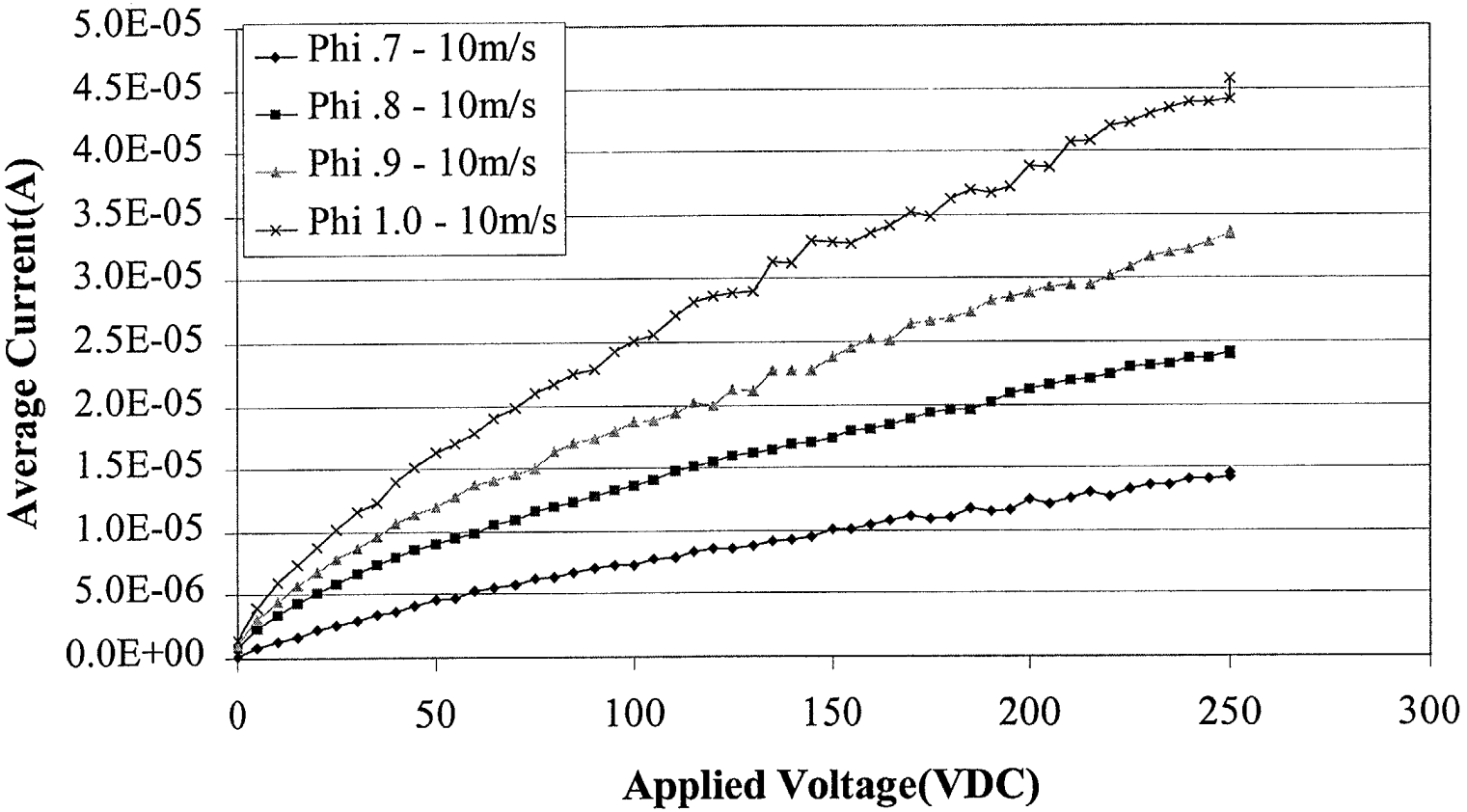


Figure 5 Shows the average current measurements over a range of applied voltage (Vbias) and equivalence ratios, at 10m/s bulk velocity using the isolated electrode combustion configuration.

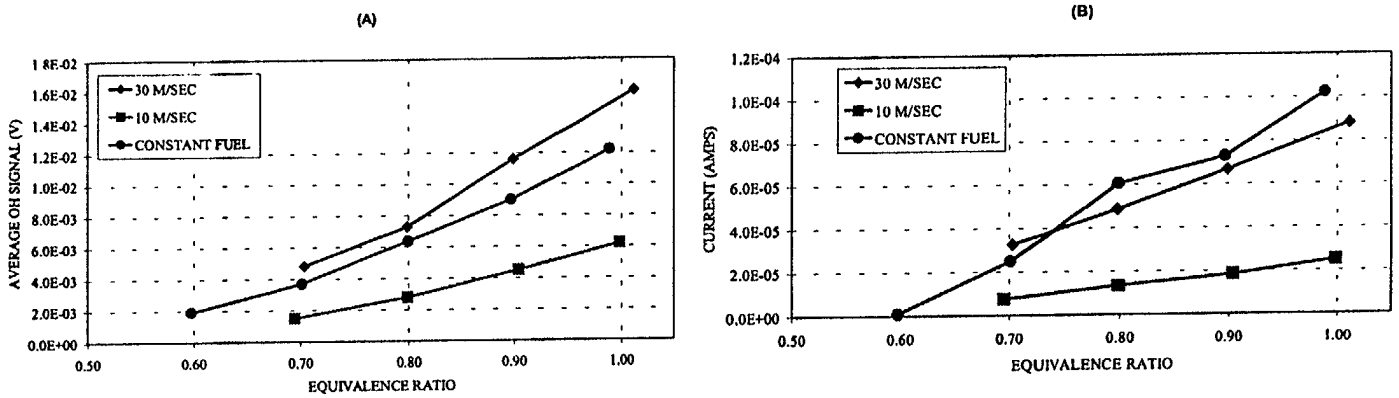


Figure 6. Data from the isolated electrode configuration: (A), and the average OH measurements at a range of equivalence ratios, (B) The average current with Vbias of 100 VDC at a range of equivalence ratios.

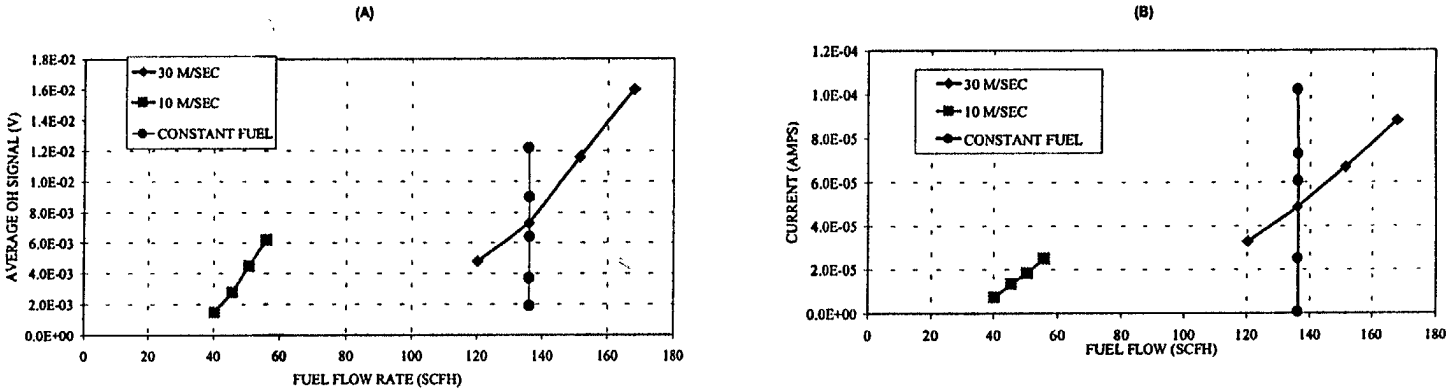


Figure 7. Data from the isolated electrode configuration: (A), and the average OH measurements at a range of fuel flow rates, (B) The average current with Vbias of 100 VDC at a range of fuel flow rates.

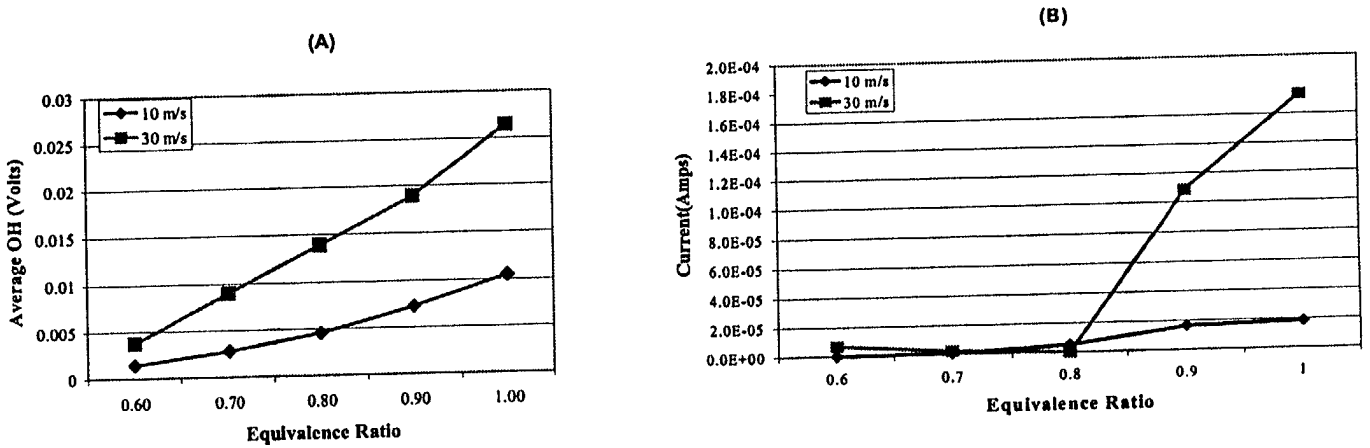


Figure 8. Data from the metal combustor configuration: (A), the average OH measurements at a range of equivalence ratios, (B) the average current measurements at a range of equivalence ratios.